

## Active Recombinant Full Length Human UCHL3, His-tagged

Cat. No. UCHL3-1518H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human UCHL3 protprot, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-230 aa).
<b>Species</b>	Human
<b>Source</b>	Human
<b>ProteinLength</b>	1-230 a.a.
<b>Description</b>	Ubiquitin carboxyl-terminal hydrolase isozyme L3, also known as UCHL3, is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. UCHL3 play a role in the regulation of neuronal development and spermatogenesis and have been implicated in neurodegenerative diseases. UCHL3 protein is 54% identical to that of UCHL1.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
<b>Molecular Weight</b>	28.3kDa (250aa), confirmed by MALDI-TOF
<b>Purity</b>	> 95% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Biological activity</b>	Specific activity: >3,000 pmole/min/ug. Measured by the hydrolysis of Ubiquitin-AMC at pH 8.0, at 37°C.

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**Activity Assay**

1. Prepare a 100ul of recombinant UCH-L3 protein with various concentrations (0.48ng, 0.9ng) in assay buffer and equilibrate to 37°C for 10 minutes. (Assay buffer: 50mM Tris-HCl, 0.5 mM EDTA, 1 mM DTT, 0.1 mg/ml Ovalbumin, pH 8.0.) 2. Add 50ul of 1uM Ubiquitin-AMC. 3. Read at excitation wavelengths 355nm and emission 460nm for 5 minutes. - Ubiquitin-AMC- 96 Well Polystyrene Microplate, black - Fluorescent plate reader

**Sequences of amino acids**

MGSSHHHHHH SSGLVPRGSH MEGQRWLPLE ANPEVTNQFL KQLGLHPNWQ  
 FVDVYGM DPE LLSMVPRPVC AVLLLPITE KYEVFRTEEE EKIKSQGDV  
 TSSVYFMKQT ISNACGTIGL IHAIANNKDK MHFESGSTLK KFLEESVSMS  
 PEERARYLEN YDAIRVTHET SAHEGQTEAP SIDEKVDLHF IALVHVDGHL  
 YELDGRKPPF INHGETSDET LLEDAIEVCK KFMERDPDEL RFNAIALSAA

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name**

[UCHL3 ubiquitin carboxyl-terminal esterase L3 \(ubiquitin thiolesterase\) \[ Homo sapiens \]](#)

**Official Symbol**

[UCHL3](#)

**Synonyms**

UCHL3; ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase); ubiquitin carboxyl-terminal hydrolase isozyme L3; ubiquitin thioesterase L3; ubiquitin thiolesterase; UCH-L3; EC 3.4.19.12

**Gene ID**

[7347](#)

**mRNA Refseq**

[NM\\_006002](#)

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**Protein Refseq** NP\_005993

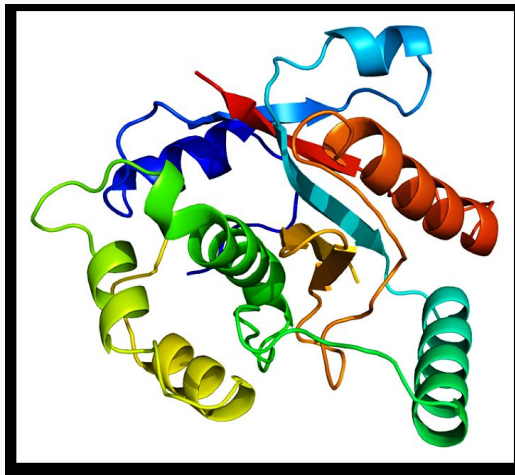
**MIM** 603090

**UniProt ID** P15374

**Chromosome Location** 13q22.2

**Function** cysteine-type peptidase activity; peptidase activity; ubiquitin thiolesterase activity; protein binding

**PDB rendering based on 1uch.**



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